Integration I Break Out Session Results



Session I Topics

- Types of Tools
 - Types of tools needed to be integrated for modeling, simulation and visualization.
- Current Tool Specifications
 - What kind of interfaces are currently available/under development?
- Interoperability Requirements
 - What features/interfaces are req'd for interoperability

Multiple System "Levels"

- Issues of Global vs. Local integration
- Classification of tools
- Battlefield
- Emergency response
- Fire
- o Plume
- o Natural disaster

Types of Tools to be Integrated

- HPAC & Contam Plume Simulation
- DBST
- Data Collection Tools
- Analytic Tools
- Scenario Generation Tools
- Data Migration Tools
- Security Tools

Types of Tools to be Integrated (cont.)

- Reliability anti spoofing tools
- Testing/validation
- Web Services
- Tools with multiple features
- User Interface
- Data Mining

Types of Tools to be Integrated (cont.)

- Transport and Dispersion
- Casualty/Population
- Logistics
- Environmental (Fixed and Dynamic)
- Weapons Effect
- Infrastructure
- Terrain Representations

2 tool sets

- 1) Operational Level
- 2) Mgmt (EOC) level

Interface Requirements

- Types of Tools
 - Planning
 - Training
 - Standard Messaging
 - Strategic
 - Tactical
 - Different Interface Requirements for Each Type of Tool

Features/Interfaces/Tools Required for Interoperability

Tools

- Standard Messaging
- Data Gathering
- Analytical
- Security/Surety
- Scenario Generation
- Database Synchronization

Features/Interfaces/Tools Required for Interoperability

- Tools (cont.)
 - Anti-spoofing
 - Real-Time Data Input (Interfaces)
 - Data Mining
 - DBASE Modeling and Conversion
 - Web Services

Features/Interfaces/Tools Required for Interoperability

- Features
 - Scalability
 - Common "Operational Picture"
 - Must be Predictive
- Issues
 - Licensing of data
 - # of municipalities
 - HLA must address:
 - Protocol
 - Syntax
 - Semantics Time synchronization

Integration II Break Out Session Results



Session II Topics

- Interoperability standards
 - What interoperability standards exist?
 - What interoperability standards are required?
- Security requirements
 - What security features are required to balance the need for quick generation of models vs. controlled access?
- Architecture requirements
 - What features should the architecture have for supporting rapid modeling and simulation?
- Architecture straw man
 - What enhancements are required to the architecture proposed by NIST?

Interoperability Standards

- IEEE
- OMG
- XML
- OpenGIS
- Symbology (ISO)
- Web Services
- Text Messaging
- HL7 Health Care Standards
- Operational terms
- STEP

Standards Recommended For Use

- Scenario-Based Analysis
- Needs for Emergency Response
- FOMS & XML Schemas
- - Geographical/GIS
- - GSM/Wireless
- - VVA
- Sisostds
- Mature Metadata for M&SV

Security Requirements/Issues

- MLS I
 Intelligence Community
- Time & Need To Know Constraints
- Physical Security Issues
- Exportability & Concurrence
- US/International Distribution
- General Communication/Authentication
- Access Control by View
- Audit Trail

Security Requirements/Issues

- Constraints put on by Technology Owners
- - Autonomous Challenge/Response System
- Non-repudiation
- Forensic evidence
- Chain of custody
- Data integrity
- Access control by view (CRUD)
- Audit Train
- Event Specific Security Requirements
- Availability/Reliability

Architecture Enhancements

- Security & Access Control
- Device Portability
- HLA (Rules/Library/Object Modeling)
- Scalable Architecture
- Lacks Streaming Data Feed
- Multiple Views Needed
- Data Warehouse/Shared Data Stores
- Multi-user Role Playing Gaming Scenarios
- Red and Blue Forces

Architecture Requirements

- Repository for Neutral Format standards supporting the Framework
- Hierarchy of Fidelity
- Std API's, Common Services, Data Syntax
- Tactical/Strategic
- Independence for Telecommunications
- Predictive, Historical, Indicators
- Levels of Integration
- Minimum Requirements to play

Thank You

